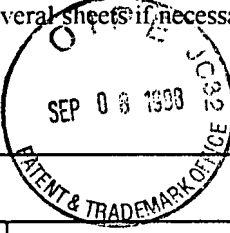
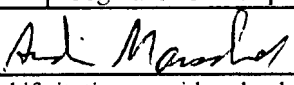



Form PTO-1449 (REV. 8-83) US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY DOCKET NO. E1047/20006		APPLICATION NO. 09/083,410 <div style="text-align: right; font-weight: bold; font-size: 1.2em;">RECEIVED</div>		
		APPLICANT(S) Eileen Xiao-Feng Nie and Yuan Min Wu				
		FILING DATE May 22, 1998		GROUP 1643 1634 GROUP 1800		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
AM		5,747,247	05/1998	Kowalczykowski et al.	435	6
AM		5,674,698	10/1997	Zarling et al.	435	7,92
AM		5,594,138	01/1997	Dykstra et al.	540	596
AM		5,539,082	07/1996	Nielsen et al.	530	300
AM		5,538,848	07/1996	Livak et al.	435	5
AM		5,332,659	07/1994	Kidwell	435	6
AM		5,503,980	04/1996	Cantor	435	6
AM		5,217,866	06/1993	Summerton et al.	435	6
AM		4,963,477	10/1990	Tehen	435	6
AM		4,220,450	09/1980	Maggio	23	230B
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
AM		93 24652	12/1993	WO		
AM		0 232 967	08/1987	EP		
AM		94 25477	11/1994	WO		
AM		92 18650	10/1992	WO		
AM		97 12995	04/1997	WO		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
AM		Perry-O'Keefe et al., "Peptide Nucleic Acid Pre-Gel Hybridization: An Alternative to Southern Hybridization," 93 Proc. Natl. Acad. Sci. USA 14670 (December 1996).				
AM		Smulevitch et al., "Enhancement of Strand Invasion by Oligonucleotides Through Manipulation of Backbone Charge," 14 Nature Biotechnology 1700 (Dec. 1996) (disclosed in Landsdorp, "Close Encounters of the PNA Kind," 14 Nature Biotechnology 1653 (Dec. 1996)).				
AM		Landsdorp, "Close Encounters of the PNA Kind," 14 Nature Biotechnology 1653 (Dec. 1996).				
AM		Egholm et al., "PNA Hybridizes to Complementary Oligonucleotides Obeying the Watson-Crick Hydrogen-Bonding Rules," 365 Nature 566 (1993)				
AM		Tomac et al., "Ionic Effects on the Stability and Conformation of Peptide Nucleic Acid Complexes," 118 J. Am. Chem. Soc. 5544 (1996).				
AM		Coghlan, "One-step DNA test in a tube," New Scientist, p. 21 (Nov. 5, 1994).				
EXAMINER				DATE CONSIDERED		
				3-15-99		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

[illegible]

Form PTO-1449 (REV. 8-83) US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY DOCKET NO. E1047/20006		APPLICATION NO. 09/083,410	
		APPLICANT(S) Eileen Xiao-Feng Nie and Yuan Min Wu			
		FILING DATE May 22, 1998		GROUP 1643 1634	
		U.S. PATENT DOCUMENTS			

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
AM	5,677,437	10/1997	Teng et al.	536	23.1
AM	5,632,957	05/1997	Heller et al.	422	68.1
AM	5,623,065	04/1997	Cook et al.	536	23.1
AM	5,618,704	04/1997	Sanghvi et al.	435	91.5
AM	5,610,289	03/1997	Cook et al.	536	25.34
AM	5,602,240	02/1997	De Mesmaeker et al.	536	22.1
AM	5,587,469	12/1996	Cook et al.	536	23.1
AM	5,541,307	07/1996	Cook et al.	536	23.1
AM	5,521,063	05/1996	Summerton et al.	435	6
AM	5,501,949	03/1996	Marshall	435	5
AM	5,470,974	11/1995	Summerton et al.	544	118
AM	5,405,938	04/1995	Summerton et al.	528	406
AM	5,310,650	05/1994	McMahon et al.	435	6
AM	5,223,618	06/1993	Cook et al.	544	276
AM	5,217,592	06/1993	Jones	204	299R
AM	5,166,330	11/1992	Engels et al.	536	27
AM	5,166,315	11/1992	Summerton et al.	528	406
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AM	5,100,775	03/1992	Smyczek et al.	435	6
AM	4,787,963	11/1988	MacConnell	204	180.1
AM	4,469,863	09/1984	Ts'o et al.	536	27

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AM	Grunstein et al., "Colony Hybridization: A Method for the Isolation of Cloned DNAs that Contain a Specific Gene." Proc. Nat'l Acad. Sci., 72(10):3961-3965, 1975.
AM	Meinkoth et al., "Hybridization of Nucleic Acids Immobilized on Solid Supports," Analytical Biochemistry, 138:267, 1984.
AM	Thomas, "Hybridization of Denatured RNA and Small DNA Fragments Transferred to Nitrocellulose." Proc. Nat'l Acad. Sci., 77(9):5201-5205, 1980.
AM	Wetmur, Biopolymers, 14:2517-2524, 1975.
AM	Chang et al., Biopolymers, 13:1847-1858, 1974.
AM	Zhang et al., "Single-base mutational analysis of cancer and genetic diseases using membrane bound modified oligonucleotides," 19(14) Nucleic Acids Research 3929-3933 (July 25, 1991).
AM	R. Hogrefe et al., Nucleic Acids Research, 1993, Vol. 21:2031-2039.

EXAMINER <i>Andi Maszlop</i>	DATE CONSIDERED 3-15-99
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